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1:

Right before call sum

%rsp = 1f8 %rsi = 4 %rdi = 18

Right after call sum

%rax = abcdabcdabcd

%rsp = 1f8

%rsi = 0

%rdi = 38

%r8 = 8

%r9 = 1

%r10 = a000a000a000

The variable start was stored in %rdi, The variable count was stored in %rsi,

The program execution begin at: 0x0
The program setup the stack by the insturction:
irmovq stack, %rsp

<u>2:</u>

Instructions that produce a value: it's visible in Decode Stage and Execute Stage

ValA, ValB stores the value of the registers when executing.

<u>3:</u>

Why are there multiple instances of ValA, ValB?

So we can execute multiple instructions at once, for example when we are executing one instruction, we can decode next instruction.

Max number of the instructions being executed,

The maximum number can be executed at once is 5